

Zug, December 3rd, 2019

## STOXX Changes Composition of STOXX Supersector, Sector and Subsector Indices effective December 23<sup>rd</sup>, 2019

Dear Sir and Madam,

STOXX Ltd., the operator of Deutsche Boerse Group's index business and a global provider of innovative and tradable index concepts, announced on December 2<sup>nd</sup>, 2019 the new composition of STOXX Supersector, Sector and Subsector Indices as part of the regular quarterly review effective on December 23<sup>rd</sup>, 2019.

| Creation Date | Index Symbol | Index Name                                                  | ISIN         | Instrument Name           | Changes  |
|---------------|--------------|-------------------------------------------------------------|--------------|---------------------------|----------|
| 03/12/2019    | BBAE         | EURO STOXX Total Market Banks                               | FR0000045528 | CREDIT AGR. ILE DE FRANCE | Deletion |
| 03/12/2019    | BCNE         | EURO STOXX Total Market Construction & Materials            | NL0000337319 | BAM GROEP KON.            | Deletion |
| 03/12/2019    | T3720E       | EURO STOXX Total Market Household Goods                     | DE000A0TGJ55 | VARTA AG                  | Addition |
| 03/12/2019    | T3720E       | EURO STOXX Total Market Household Goods                     | NL0011375019 | STEINHOFF N.V.            | Deletion |
| 03/12/2019    | SIECTS       | EURO STOXX Total Market Mobile Telecommunications           | BMG9349W1038 | VEON                      | Addition |
| 03/12/2019    | T3760E       | EURO STOXX Total Market Personal Goods                      | FR0013214145 | SMCP SAS                  | Deletion |
| 03/12/2019    | T9530E       | EURO STOXX Total Market Software & Computer Services        | DE000A2YN900 | TEAMVIEWER AG             | Addition |
| 03/12/2019    | T5700E       | EURO STOXX Total Market Travel & Leisure                    | FR0012789949 | EUROPCAR MOBILITY GROUP   | Deletion |
| 03/12/2019    | BBAP         | STOXX Europe Total Market Banks                             | FR0000045528 | CREDIT AGR. ILE DE FRANCE | Deletion |
| 03/12/2019    | BCHP         | STOXX Europe Total Market Chemicals                         | PLZATRM00012 | GRUPA AZOTY               | Addition |
| 03/12/2019    | BCHP         | STOXX Europe Total Market Chemicals                         | NO0010112675 | REC SILICON               | Deletion |
| 03/12/2019    | BCHP         | STOXX Europe Total Market Chemicals                         | GB00B0DG3H29 | SIRIUS MINERALS           | Deletion |
| 03/12/2019    | BCNP         | STOXX Europe Total Market Construction & Materials          | NL0000337319 | BAM GROEP KON.            | Deletion |
| 03/12/2019    | BCNP         | STOXX Europe Total Market Construction & Materials          | GB00BZ1G4322 | MELROSE INDUSTRIES        | Deletion |
| 03/12/2019    | T2730P       | STOXX Europe Total Market Electronic & Electrical Equipment | NO0003070609 | IDEX BIOMETRICS           | Deletion |
| 03/12/2019    | T8770P       | STOXX Europe Total Market General Financial                 | GB00BZ1G4322 | MELROSE INDUSTRIES        | Addition |
| 03/12/2019    | T8770P       | STOXX Europe Total Market General Financial                 | SE0012853455 | EQT                       | Addition |
| 03/12/2019    | T8770P       | STOXX Europe Total Market General Financial                 | CH0102659627 | GAM                       | Deletion |
| 03/12/2019    | T8770P       | STOXX Europe Total Market General Financial                 | PLATTFI00018 | ALTUS TFI                 | Deletion |
| 03/12/2019    | T5370P       | STOXX Europe Total Market General Retailers                 | DK0060497295 | MATAS                     | Deletion |
| 03/12/2019    | T3720P       | STOXX Europe Total Market Household Goods                   | DE000A0TGJ55 | VARTA AG                  | Addition |

|            |        |                                                             |              |                                |          |
|------------|--------|-------------------------------------------------------------|--------------|--------------------------------|----------|
| 03/12/2019 | T3720P | STOXX Europe Total Market Household Goods                   | NL0011375019 | STEINHOFF N.V.                 | Deletion |
| 03/12/2019 | SIPTRA | STOXX Europe Total Market Industrial Transportation         | BMG067231032 | AVANCE GAS                     | Addition |
| 03/12/2019 | T3740P | STOXX Europe Total Market Leisure Goods                     | DK0010218429 | BANG AND OLUFSEN               | Deletion |
| 03/12/2019 | SIPCTS | STOXX Europe Total Market Mobile Telecommunications         | BMG9349W1038 | VEON                           | Addition |
| 03/12/2019 | T0530P | STOXX Europe Total Market Oil & Gas Producers               | NO0010564701 | PANORO ENERGY                  | Addition |
| 03/12/2019 | T3760P | STOXX Europe Total Market Personal Goods                    | FR0013214145 | SMCP SAS                       | Deletion |
| 03/12/2019 | T4570P | STOXX Europe Total Market Pharmaceuticals & Biotechnology   | PLSLVCR00029 | SELVITA                        | Addition |
| 03/12/2019 | T4570P | STOXX Europe Total Market Pharmaceuticals & Biotechnology   | CH0038389992 | BB BIOTECH                     | Deletion |
| 03/12/2019 | T8630P | STOXX Europe Total Market Real Estate Investment & Services | SE0009554454 | SAMHALLSBYGGNADSBOL AGET NORD  | Addition |
| 03/12/2019 | T8670P | STOXX Europe Total Market REITs                             | GB00BYQ46T41 | LXI REIT PLC                   | Addition |
| 03/12/2019 | T8670P | STOXX Europe Total Market REITs                             | GB0006834344 | Intu Properties PLC            | Deletion |
| 03/12/2019 | T9530P | STOXX Europe Total Market Software & Computer Services      | DE000A2YN900 | TEAMVIEWER AG                  | Addition |
| 03/12/2019 | T9530P | STOXX Europe Total Market Software & Computer Services      | PLPILAB00012 | DATAWALK                       | Addition |
| 03/12/2019 | SXPSVC | STOXX Europe Total Market Support Services                  | GB00BH3VJ782 | NETWORK INTERNATIONAL HOLDINGS | Addition |
| 03/12/2019 | T5700P | STOXX Europe Total Market Travel & Leisure                  | GB00BKDTK925 | TRAINLINE PLC                  | Addition |
| 03/12/2019 | T5700P | STOXX Europe Total Market Travel & Leisure                  | GB00BZ14BX56 | GAMESYS GROUP                  | Addition |
| 03/12/2019 | T5700P | STOXX Europe Total Market Travel & Leisure                  | PLRNBWT00031 | RAINBOW TOURS SR.B C2 E        | Addition |
| 03/12/2019 | T5700P | STOXX Europe Total Market Travel & Leisure                  | PLENTER00017 | ENTER AIR                      | Addition |
| 03/12/2019 | T5700P | STOXX Europe Total Market Travel & Leisure                  | FR0012789949 | EUROPCAR MOBILITY GROUP        | Deletion |
| 03/12/2019 | T5751P | STOXX Europe Total Market Airlines                          | PLENTER00017 | ENTER AIR                      | Addition |
| 03/12/2019 | T4573P | STOXX Europe Total Market Biotechnology                     | PLSLVCR00029 | SELVITA                        | Addition |
| 03/12/2019 | T4573P | STOXX Europe Total Market Biotechnology                     | CH0038389992 | BB BIOTECH                     | Deletion |
| 03/12/2019 | T8633P | STOXX Europe Total Market Real Estate Holding & Development | SE0009554454 | SAMHALLSBYGGNADSBOL AGET NORD  | Addition |
| 03/12/2019 | T8672P | STOXX Europe Total Market Retail REITs                      | GB0006834344 | Intu Properties PLC            | Deletion |
| 03/12/2019 | T9537P | STOXX Europe Total Market Software                          | DE000A2YN900 | TEAMVIEWER AG                  | Addition |
| 03/12/2019 | T9537P | STOXX Europe Total Market Software                          | PLPILAB00012 | DATAWALK                       | Addition |
| 03/12/2019 | SXDE   | EURO STOXX Health Care                                      | DE000A0LD6E6 | GERRESHEIMER                   | Deletion |
| 03/12/2019 | SXNE   | EURO STOXX Industrial Goods & Services                      | FI0009005870 | KONECRANES                     | Deletion |
| 03/12/2019 | SXME   | EURO STOXX Media                                            | LU0061462528 | RTL GRP                        | Deletion |
| 03/12/2019 | SXRE   | EURO STOXX Retail                                           | DE000A161408 | HELLOFRESH AG                  | Addition |
| 03/12/2019 | T3700E | EURO STOXX Total Market Personal & Household Goods          | DE000A0TGJ55 | VARTA AG                       | Addition |
| 03/12/2019 | T3700E | EURO STOXX Total Market Personal & Household Goods          | NL0011375019 | STEINHOFF N.V.                 | Deletion |

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|------------|----------|-------------------------------------------------------|--------------|--------------------------------|----------|
| 03/12/2019 | T3700E   | EURO STOXX Total Market Personal & Household Goods    | FR0013214145 | SMCP SAS                       | Deletion |
| 03/12/2019 | SXA1HCRE | STOXX North America 600 Health Care                   | US7140461093 | PERKINELMER                    | Addition |
| 03/12/2019 | SXA1IGSE | STOXX North America 600 Industrial Goods & Services   | US7140461093 | PERKINELMER                    | Deletion |
| 03/12/2019 | SXA1MDIE | STOXX North America 600 Media                         | US64110L1061 | Netflix Inc.                   | Addition |
| 03/12/2019 | SXA1ENEE | STOXX North America 600 Oil & Gas                     | CA2925051047 | EnCana Corp.                   | Deletion |
| 03/12/2019 | SXA1NCGE | STOXX North America 600 Personal & Household Goods    | US94419L1017 | WAYFAIR CL.A                   | Deletion |
| 03/12/2019 | SXA1RTSE | STOXX North America 600 Retail                        | US64110L1061 | Netflix Inc.                   | Deletion |
| 03/12/2019 | SXA1TECE | STOXX North America 600 Technology                    | US40171V1008 | GUIDEWIRE SOFTWARE             | Addition |
| 03/12/2019 | SXA1TECE | STOXX North America 600 Technology                    | US2561631068 | DOCUSIGN                       | Addition |
| 03/12/2019 | SXP1FSVE | STOXX Asia/Pacific 600 Financial Services             | AU000000SUN6 | SUNCORP GROUP LTD.             | Deletion |
| 03/12/2019 | SXP1HCRE | STOXX Asia/Pacific 600 Health Care                    | KYG1146Y1017 | BEIGENE                        | Addition |
| 03/12/2019 | SXP1INSE | STOXX Asia/Pacific 600 Insurance                      | AU000000SUN6 | SUNCORP GROUP LTD.             | Addition |
| 03/12/2019 | SXP1MDIE | STOXX Asia/Pacific 600 Media                          | AU000000NEC4 | NINE ENTERTAINMENT             | Deletion |
| 03/12/2019 | SXP1RTSE | STOXX Asia/Pacific 600 Retail                         | KYG711391022 | PING AN HEALTHCARE AND TECH CO | Addition |
| 03/12/2019 | SXP1CGSE | STOXX Asia/Pacific 600 Travel & Leisure               | AU000000FLT9 | FLIGHT CENTRE TRAVEL GROUP     | Deletion |
| 03/12/2019 | SXFF     | STOXX Europe 600 ex UK Financial Services             | SE0012853455 | EQT                            | Addition |
| 03/12/2019 | SXDF     | STOXX Europe 600 ex UK Health Care                    | DE000A0LD6E6 | GERRESHEIMER                   | Deletion |
| 03/12/2019 | SXDF     | STOXX Europe 600 ex UK Health Care                    | CH0038389992 | BB BIOTECH                     | Deletion |
| 03/12/2019 | SXNF     | STOXX Europe 600 ex UK Industrial Goods & Services    | CH0435377954 | SIG COMBIBLOC GROUP AG         | Addition |
| 03/12/2019 | SXNF     | STOXX Europe 600 ex UK Industrial Goods & Services    | FI0009005870 | KONECRANES                     | Deletion |
| 03/12/2019 | SXNF     | STOXX Europe 600 ex UK Industrial Goods & Services    | CH0002432174 | BUCHER INDUSTRIES              | Deletion |
| 03/12/2019 | SXMF     | STOXX Europe 600 ex UK Media                          | LU0061462528 | RTL GRP                        | Deletion |
| 03/12/2019 | SXEF     | STOXX Europe 600 ex UK Oil & Gas                      | PLPGNIG00014 | POLISH OIL AND GAS             | Deletion |
| 03/12/2019 | SXRF     | STOXX Europe 600 ex UK Retail                         | DE000A161408 | HELLOFRESH AG                  | Addition |
| 03/12/2019 | SXTF     | STOXX Europe 600 ex UK Travel & Leisure               | SE0012673267 | EVOLUTION GAMING GROUP         | Addition |
| 03/12/2019 | BFSP     | STOXX Europe Total Market Financial Services          | GB00BZ1G4322 | MELROSE INDUSTRIES             | Addition |
| 03/12/2019 | BFSP     | STOXX Europe Total Market Financial Services          | SE0012853455 | EQT                            | Addition |
| 03/12/2019 | BFSP     | STOXX Europe Total Market Financial Services          | CH0102659627 | GAM                            | Deletion |
| 03/12/2019 | BFSP     | STOXX Europe Total Market Financial Services          | PLATTFI00018 | ALTUS TFI                      | Deletion |
| 03/12/2019 | BIGP     | STOXX Europe Total Market Industrial Goods & Services | BMG067231032 | AVANCE GAS                     | Addition |
| 03/12/2019 | BIGP     | STOXX Europe Total Market Industrial Goods & Services | GB00BH3VJ782 | NETWORK INTERNATIONAL HOLDINGS | Addition |
| 03/12/2019 | BIGP     | STOXX Europe Total Market Industrial Goods & Services | NO0003070609 | IDEX BIOMETRICS                | Deletion |

|            |          |                                                         |              |                                   |          |
|------------|----------|---------------------------------------------------------|--------------|-----------------------------------|----------|
| 03/12/2019 | T3700P   | STOXX Europe Total Market Personal & Household Goods    | DE000A0TGJ55 | VARTA AG                          | Addition |
| 03/12/2019 | T3700P   | STOXX Europe Total Market Personal & Household Goods    | DK0010218429 | BANG AND OLUFSEN                  | Deletion |
| 03/12/2019 | T3700P   | STOXX Europe Total Market Personal & Household Goods    | NL0011375019 | STEINHOFF N.V.                    | Deletion |
| 03/12/2019 | T3700P   | STOXX Europe Total Market Personal & Household Goods    | FR0013214145 | SMCP SAS                          | Deletion |
| 03/12/2019 | T8600P   | STOXX Europe Total Market Real Estate                   | GB00BYQ46T41 | LXI REIT PLC                      | Addition |
| 03/12/2019 | T8600P   | STOXX Europe Total Market Real Estate                   | SE0009554454 | SAMHALLSBYGGNADSBOL<br>AGET NORD  | Addition |
| 03/12/2019 | T8600P   | STOXX Europe Total Market Real Estate                   | GB0006834344 | Intu Properties PLC               | Deletion |
| 03/12/2019 | T5300P   | STOXX Europe Total Market Retail                        | DK0060497295 | MATAS                             | Deletion |
| 03/12/2019 | SXW1CNSE | STOXX Global 1800 Construction & Materials              | GB0000961622 | BALFOUR BEATTY                    | Deletion |
| 03/12/2019 | SXW1CNSE | STOXX Global 1800 Construction & Materials              | GB00BZ1G4322 | MELROSE INDUSTRIES                | Deletion |
| 03/12/2019 | SXW8FSVE | STOXX Global 1800 ex Europe Financial Services          | AU000000SUN6 | SUNCORP GROUP LTD.                | Deletion |
| 03/12/2019 | SXW8HCRE | STOXX Global 1800 ex Europe Health Care                 | US7140461093 | PERKINELMER                       | Addition |
| 03/12/2019 | SXW8HCRE | STOXX Global 1800 ex Europe Health Care                 | KYG1146Y1017 | BEIGENE                           | Addition |
| 03/12/2019 | SXW8IGSE | STOXX Global 1800 ex Europe Industrial Goods & Services | US7140461093 | PERKINELMER                       | Deletion |
| 03/12/2019 | SXW8INSE | STOXX Global 1800 ex Europe Insurance                   | AU000000SUN6 | SUNCORP GROUP LTD.                | Addition |
| 03/12/2019 | SXW8MDIE | STOXX Global 1800 ex Europe Media                       | US64110L1061 | Netflix Inc.                      | Addition |
| 03/12/2019 | SXW8MDIE | STOXX Global 1800 ex Europe Media                       | AU000000NEC4 | NINE ENTERTAINMENT                | Deletion |
| 03/12/2019 | SXW8ENEE | STOXX Global 1800 ex Europe Oil & Gas                   | CA2925051047 | EnCana Corp.                      | Deletion |
| 03/12/2019 | SXW8NCGE | STOXX Global 1800 ex Europe Personal & Household Goods  | US94419L1017 | WAYFAIR CL.A                      | Deletion |
| 03/12/2019 | SXW8RTSE | STOXX Global 1800 ex Europe Retail                      | KYG711391022 | PING AN HEALTHCARE AND<br>TECH CO | Addition |
| 03/12/2019 | SXW8RTSE | STOXX Global 1800 ex Europe Retail                      | US64110L1061 | Netflix Inc.                      | Deletion |
| 03/12/2019 | SXW8TECE | STOXX Global 1800 ex Europe Technology                  | US40171V1008 | GUIDEWIRE SOFTWARE                | Addition |
| 03/12/2019 | SXW8TECE | STOXX Global 1800 ex Europe Technology                  | US2561631068 | DOCUSIGN                          | Addition |
| 03/12/2019 | SXW8CGSE | STOXX Global 1800 ex Europe Travel & Leisure            | AU000000FLT9 | FLIGHT CENTRE TRAVEL<br>GROUP     | Deletion |
| 03/12/2019 | SXW1FSVE | STOXX Global 1800 Financial Services                    | GB00B1H0DZ51 | TP ICAP                           | Addition |
| 03/12/2019 | SXW1FSVE | STOXX Global 1800 Financial Services                    | GB00BZ1G4322 | MELROSE INDUSTRIES                | Addition |
| 03/12/2019 | SXW1FSVE | STOXX Global 1800 Financial Services                    | SE0012853455 | EQT                               | Addition |
| 03/12/2019 | SXW1FSVE | STOXX Global 1800 Financial Services                    | AU000000SUN6 | SUNCORP GROUP LTD.                | Deletion |
| 03/12/2019 | SXW1HCRE | STOXX Global 1800 Health Care                           | US7140461093 | PERKINELMER                       | Addition |
| 03/12/2019 | SXW1HCRE | STOXX Global 1800 Health Care                           | KYG1146Y1017 | BEIGENE                           | Addition |
| 03/12/2019 | SXW1HCRE | STOXX Global 1800 Health Care                           | DE000A0LD6E6 | GERRESHEIMER                      | Deletion |
| 03/12/2019 | SXW1HCRE | STOXX Global 1800 Health Care                           | CH0038389992 | BB BIOTECH                        | Deletion |

|            |          |                                               |              |                                |          |
|------------|----------|-----------------------------------------------|--------------|--------------------------------|----------|
| 03/12/2019 | SXW1IGSE | STOXX Global 1800 Industrial Goods & Services | CH0435377954 | SIG COMBIBLOC GROUP AG         | Addition |
| 03/12/2019 | SXW1IGSE | STOXX Global 1800 Industrial Goods & Services | GB00BH3VJ782 | NETWORK INTERNATIONAL HOLDINGS | Addition |
| 03/12/2019 | SXW1IGSE | STOXX Global 1800 Industrial Goods & Services | FI0009005870 | KONECRANES                     | Deletion |
| 03/12/2019 | SXW1IGSE | STOXX Global 1800 Industrial Goods & Services | CH0002432174 | BUCHER INDUSTRIES              | Deletion |
| 03/12/2019 | SXW1IGSE | STOXX Global 1800 Industrial Goods & Services | US7140461093 | PERKINELMER                    | Deletion |
| 03/12/2019 | SXW1INSE | STOXX Global 1800 Insurance                   | AU000000SUN6 | SUNCORP GROUP LTD.             | Addition |
| 03/12/2019 | SXW1MDIE | STOXX Global 1800 Media                       | US64110L1061 | Netflix Inc.                   | Addition |
| 03/12/2019 | SXW1MDIE | STOXX Global 1800 Media                       | LU0061462528 | RTL GRP                        | Deletion |
| 03/12/2019 | SXW1MDIE | STOXX Global 1800 Media                       | AU000000NEC4 | NINE ENTERTAINMENT             | Deletion |
| 03/12/2019 | SXW1ENEE | STOXX Global 1800 Oil & Gas                   | PLPGNIG00014 | POLISH OIL AND GAS             | Deletion |
| 03/12/2019 | SXW1ENEE | STOXX Global 1800 Oil & Gas                   | CA2925051047 | EnCana Corp.                   | Deletion |
| 03/12/2019 | SXW1NCGE | STOXX Global 1800 Personal & Household Goods  | US94419L1017 | WAYFAIR CL.A                   | Deletion |
| 03/12/2019 | SXW1RTSE | STOXX Global 1800 Retail                      | DE000A161408 | HELLOFRESH AG                  | Addition |
| 03/12/2019 | SXW1RTSE | STOXX Global 1800 Retail                      | KYG711391022 | PING AN HEALTHCARE AND TECH CO | Addition |
| 03/12/2019 | SXW1RTSE | STOXX Global 1800 Retail                      | US64110L1061 | Netflix Inc.                   | Deletion |
| 03/12/2019 | SXW1TECE | STOXX Global 1800 Technology                  | US40171V1008 | GUIDEWIRE SOFTWARE             | Addition |
| 03/12/2019 | SXW1TECE | STOXX Global 1800 Technology                  | GB00BDD85M81 | AVAST PLC                      | Addition |
| 03/12/2019 | SXW1TECE | STOXX Global 1800 Technology                  | US2561631068 | DOCUSIGN                       | Addition |
| 03/12/2019 | SXW1CGSE | STOXX Global 1800 Travel & Leisure            | SE0012673267 | EVOLUTION GAMING GROUP         | Addition |
| 03/12/2019 | SXW1CGSE | STOXX Global 1800 Travel & Leisure            | AU000000FLT9 | FLIGHT CENTRE TRAVEL GROUP     | Deletion |

For more information on the STOXX indices, please visit [www.stoxx.com](http://www.stoxx.com)